		
	Application No.	Applicant(s)
Notice of Allowability	09/583,864	NATHAN ET AL.
	Examiner	Art Unit
	Andrew C. Flanders	2615
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to <u>The amendment filed 20 March 2006</u> .		
2. The allowed claim(s) is/are <u>1-7 and 9</u> .		
3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 📋 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s)		•
1. Notice of References Cited (PTO-892)		atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No /Mail Dat	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08	Paper No./Mail Dat B), 7. ☐ Examiner's Amendn	nent/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	nt of Reasons for Allowance
of Biological Material	9. 🗌 Other	

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DETAILED ACTION

Allowable Subject Matter

Claims 1 – 7 and 9 are allowed.

The following is an examiner's statement of reasons for allowance:

Claim 1 recites determining the possible gain by applying a formula of $Gv = 20log(A_2/Am)$ where A2 is the maximum amplitude value and Am is the maximum amplitude value for all frequencies combined.

The closest prior art of record, Kokkosoulis discloses calculating a possible gain using the maximum amplitude value and the maximum amplitude value for all frequencies combined (i.e. the user inputs an output volume control value (max amplitude value for all frequencies); col. 4 lines 4 – 8; the system then calculates y_{max} from the input; equation (4); the system calculates n and L based upon the differences of x_{max} and y_{max} ; equations 5 and 6; then the system attenuates the input samples using these calculations according to equation 1).

However, as noted by applicant, Kokkosoulis uses a different equation for arriving at the possible gain (i.e. equation 1). Kokkosoulis does not disclose using a logarithmic ratio as claimed in Applicant's claim 1.

Further, in another similar disclosure, Fiedler (U.S. Patent 5,579,404) discloses a digital audio limiter that selects a gain factor equal to the ratio between the reference level (i.e. the maximum amplitude value) and the peak-amplitude estimate (i.e. the maximum amplitude value for all frequencies combined); col. 12 lines 55 - 57.

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However, while Fiedler further discloses that this ratio is calculated using equation 1 in col. 9 and not using the same equation as applied by Applicant.

For the above reasons claim 1 is determined to contain allowable subject matter.

Claims 2 – 7 and 9 depend upon claim 1 thus incorporating the allowable limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Flanders whose telephone number is (571) 272-7516. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7546. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

acf

SINHTRAN SUPERVISORY PATENT EXAMINER